LAPORAN TUGAS PEMROGRAMAN BERBASIS FRAMEWORK

Modul 11
Firebase Login
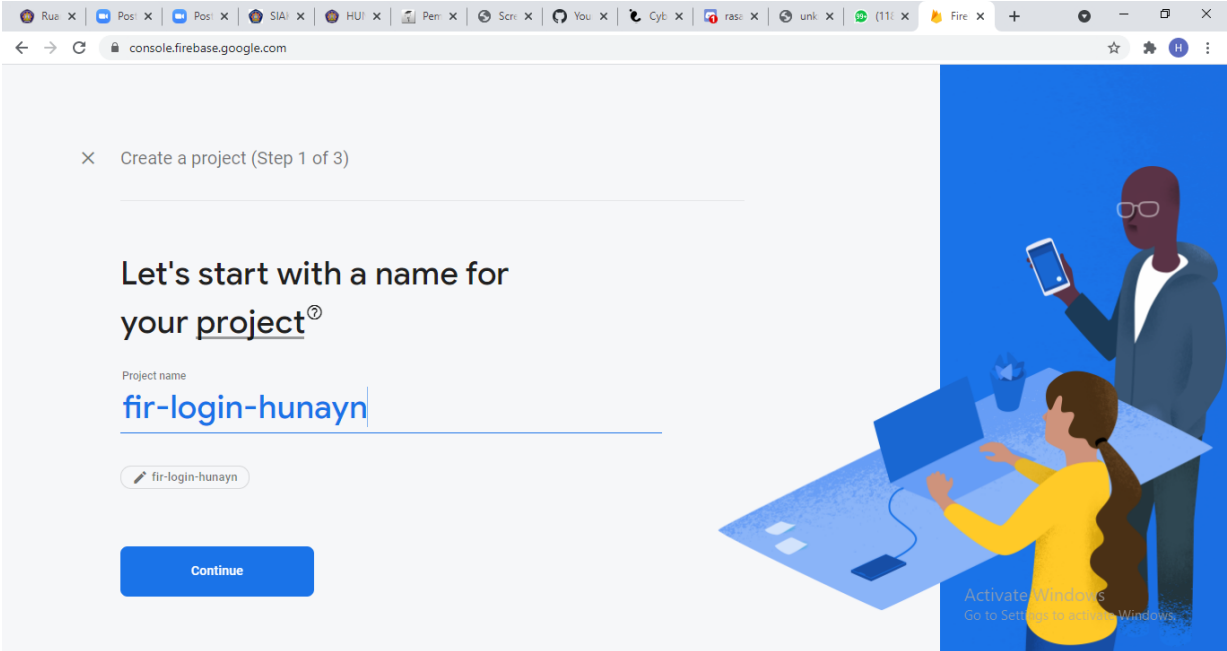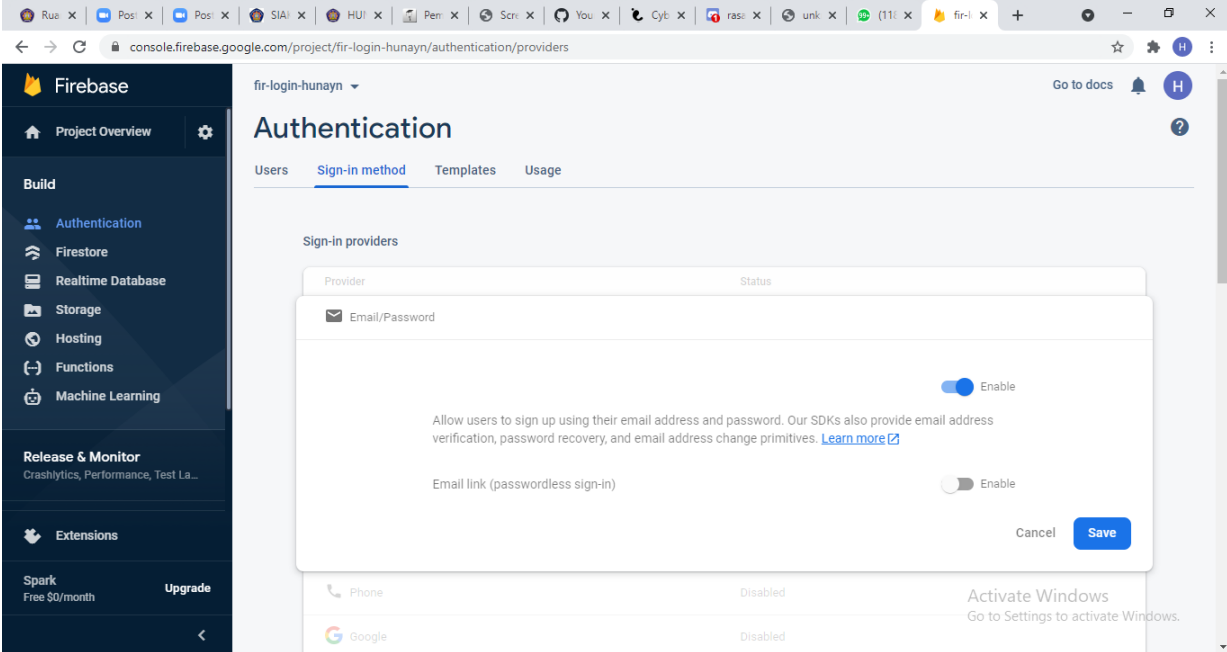
Disusun Oleh :

Nama : Hunayn Risatayn
NIM : 1841720148
Kelas : TI-3E

Program Studi D-IV Teknik Informatika
Jurusan Teknologi Informasi
Politeknik Negeri Malang
April 2021

Praktikum – Bagian 1: Firebase Console Setup

Langkah	Keterangan
1	**Setting Firebase Console**
	Login ke firebase console dan add a new project. Pilih authentification dan pilih tab menu Set up sign in method
	Setelah enabling athentification pilih menu Database dan pilih create database
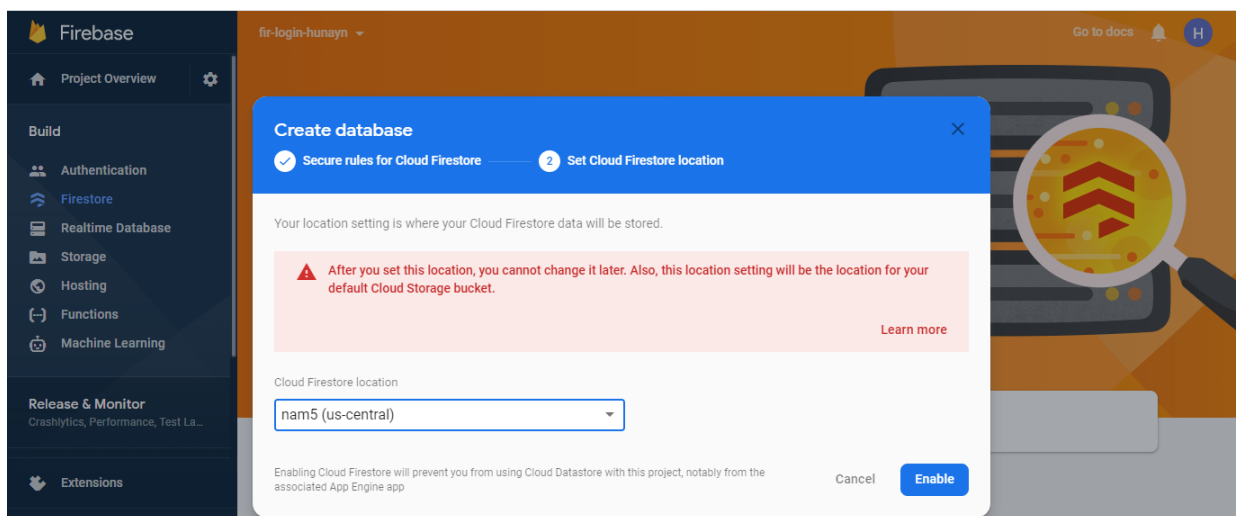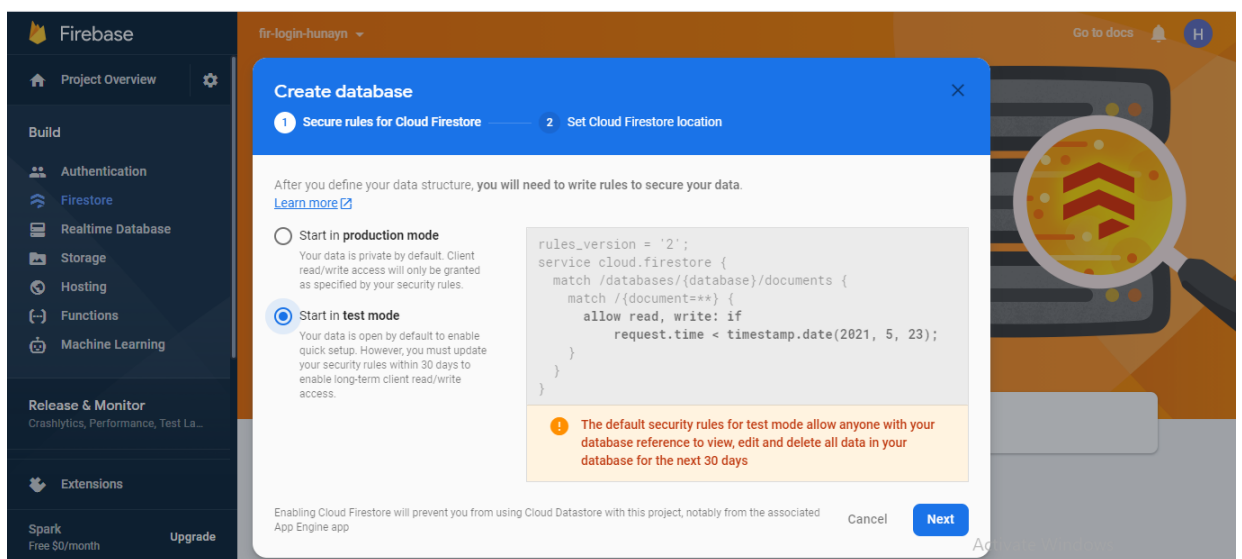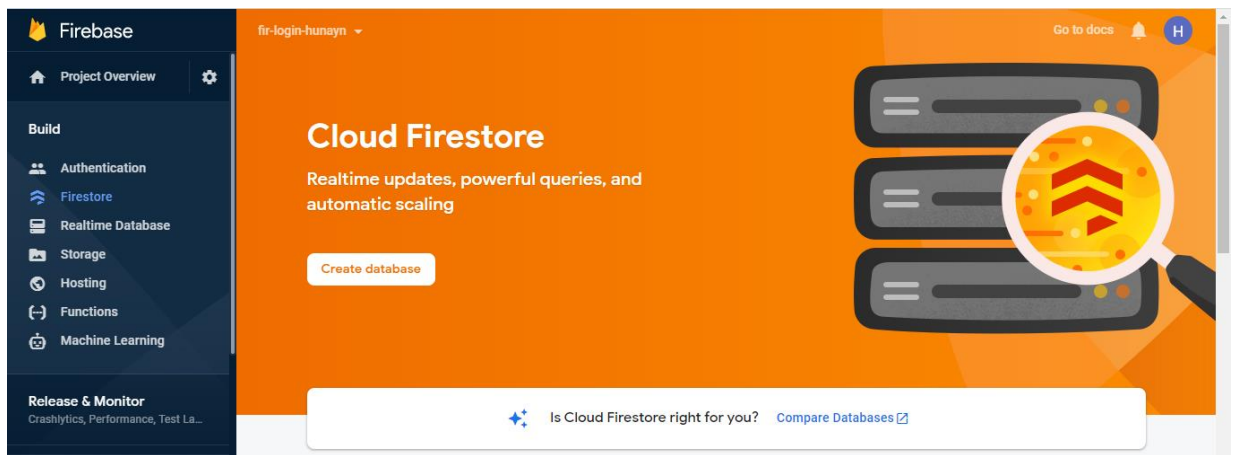
Setting react app dan firebase

Buat aplikasi baru dengan perintah

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek> npx create-react-app react-fir-login-hunayn

Creating a new React app in D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...


> core-js@2.6.12 postinstall D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn\node_modules\babel-runtime\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"


> core-js@3.11.0 postinstall D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn\node_modules\core-js
```

```
     Starts the test runner.

  npm run eject
     Removes this tool and copies build dependencies, configuration files
     and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd react-fir-login-hunayn
  npm start

Happy hacking!
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek>
```
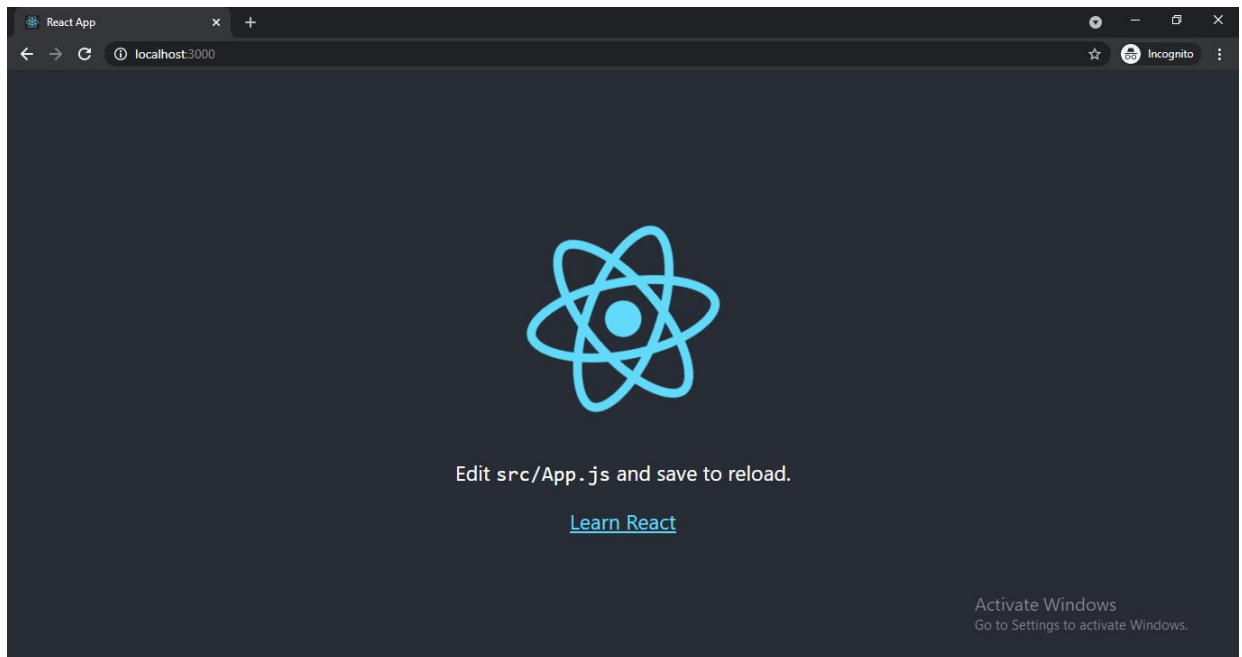
Run project baru dengan perintah

Install firebase

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> npm install -g firebase-tools
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
C:\Users\mycomp\AppData\Roaming\npm\firebase -> C:\Users\mycomp\AppData\Roaming\npm\node_modules\firebase-tools\lib\bin\firebase.js

> re2@1.15.9 install C:\Users\mycomp\AppData\Roaming\npm\node_modules\firebase-tools\node_modules\re2
> install-from-cache --artifact build/Release/re2.node --host-var RE2_DOWNLOAD_MIRROR || npm run rebuild

Trying https://github.com/uhop/node-re2/releases/download/1.15.9/win32-x64-72.br ...
Writing to build/Release/re2.node ...
Done.

> protobufjs@6.10.2 postinstall C:\Users\mycomp\AppData\Roaming\npm\node_modules\firebase-tools\node_modules\protobufjs
```

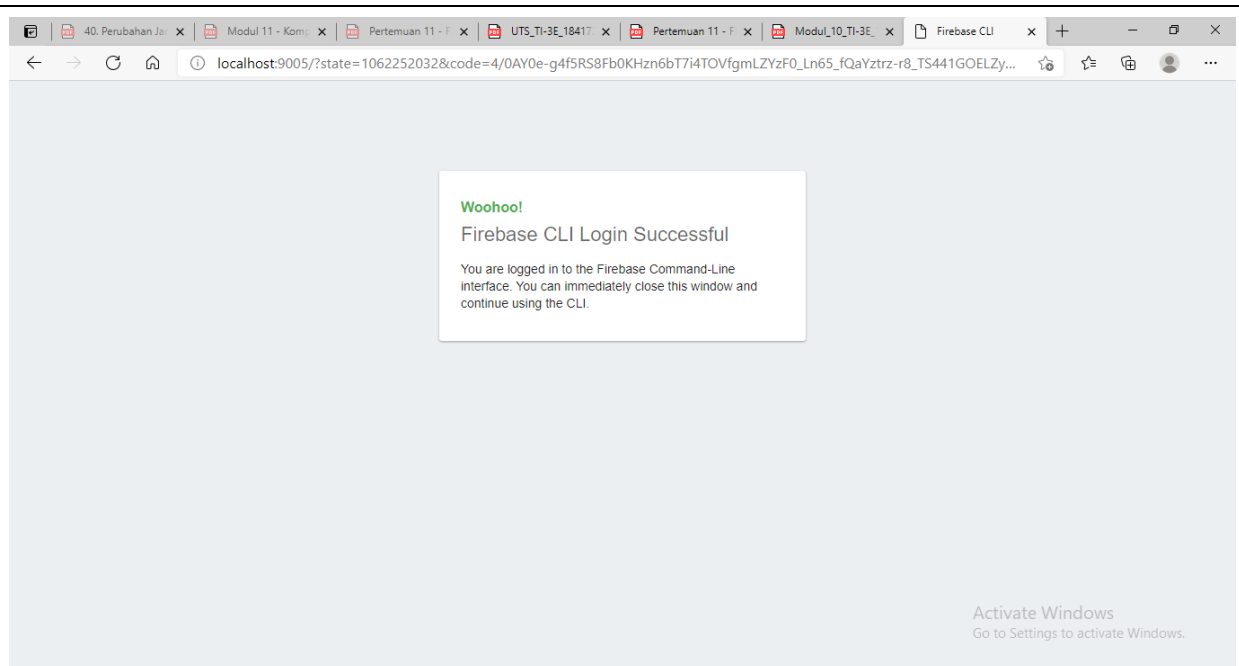## Pilih setting untuk firebase nya firebase dan Hosting

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> Set-ExecutionPolicy -Scope Process -ExecutionPolicy Bypass
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> firebase login
i  Firebase optionally collects CLI usage and error reporting information to help improve our products. Data is collected in accordance with Google's privacy policy (https://policies
.google.com/privacy) and is not used to identify you.

? Allow Firebase to collect CLI usage and error reporting information? Yes
i  To change your data collection preference at any time, run `firebase logout` and log in again.

Visit this URL on this device to log in:
https://accounts.google.com/o/oauth2/auth?client_id=563584335869-fgrhgmd47bqnekij5i8b5pr03ho849e6.apps.googleusercontent.com&scope=email%20openid%20https%3A%2F%2Fwww.googleapis.com%2
Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Ffirebase%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform&response_type=code&state=106225
2032&redirect_uri=http%3A%2F%2Flocalhost%3A9005

Waiting for authentication...

+  Success! Logged in as hunaynr@gmail.com
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn>
```

4

← → C ⌂ ⓘ localhost:9005/?state=1062252032&code=4/0AY0e-g4f5RS8Fb0KHzn6bT7i4TOVfgmLZYzF0_Ln65_fQaYztrz-r8_TS441GOELZy...

Woohoo!

Firebase CLI Login Successful

You are logged in to the Firebase Command-Line
interface. You can immediately close this window and
continue using the CLI.

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> firebase init


     ######## #### ######## ######## ########     ###     ###### ########
     ##        ## ##   ## ##   ## ##        ##       ## ## ## ## ##       ##
     ######    ## ######## ######   ########  ######### ######  ######
     ##        ## ##   ## ##   ##        ## ## ##       ##    ## ##
     ##       #### ##   ## ######## ######## ##       ## ###### ########

You're about to initialize a Firebase project in this directory:

  D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn

? Are you ready to proceed? Yes
? Which Firebase CLI features do you want to set up for this folder? Press Space to select features, then Enter to confirm your choices. Firestore: Deploy rules and create indexes fo
r Firestore, Hosting: Configure and deploy Firebase Hosting sites

=== Project Setup
```

```
? Which Firebase CLI features do you want to set up for this folder? Press Space to select features, then Enter to confirm your choices. Firestore: Deploy rules and create indexes fo
r Firestore, Hosting: Configure and deploy Firebase Hosting sites

=== Project Setup

First, let's associate this project directory with a Firebase project.
You can create multiple project aliases by running firebase use --add,
but for now we'll just set up a default project.

? Please select an option: Use an existing project
? Select a default Firebase project for this directory: fir-login-hunayn (fir-login-hunayn)
i  Using project fir-login-hunayn (fir-login-hunayn)

=== Firestore Setup

Firestore Security Rules allow you to define how and when to allow
requests. You can keep these rules in your project directory
and publish them with firebase deploy.

? What file should be used for Firestore Rules? firestore.rules
? File firestore.rules already exists. Do you want to overwrite it with the Firestore Rules from the Firebase Console? Yes

Firestore indexes allow you to perform complex queries while
maintaining performance that scales with the size of the result
set. You can keep index definitions in your project directory
and publish them with firebase deploy.
```

```
Firestore indexes allow you to perform complex queries while
maintaining performance that scales with the size of the result
set. You can keep index definitions in your project directory
and publish them with firebase deploy.

? What file should be used for Firestore indexes? firestore.indexes.json
? File firestore.indexes.json already exists. Do you want to overwrite it with the Firestore Indexes from the Firebase Console? Yes

=== Hosting Setup

Your public directory is the folder (relative to your project directory) that
will contain Hosting assets to be uploaded with firebase deploy. If you
have a build process for your assets, use your build's output directory.

? What do you want to use as your public directory? public
? Configure as a single-page app (rewrite all urls to /index.html)? No
? Set up automatic builds and deploys with GitHub? No
? File public/404.html already exists. Overwrite? No
i  Skipping write of public/404.html
? File public/index.html already exists. Overwrite? No
i  Skipping write of public/index.html

i  Writing configuration info to firebase.json...
i  Writing project information to .firebaserc...

+  Firebase initialization complete!
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn>
```

Untuk membangun firebase

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> npm run build

> react-fir-login-hunayn@0.1.0 build D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn
> react-scripts build

Creating an optimized production build...
Compiled successfully.

File sizes after gzip:

  41.34 KB  build\static\js\2.f0316fde.chunk.js
  1.57 KB   build\static\js\3.7511c5b2.chunk.js
  1.18 KB   build\static\js\runtime-main.01309826.js
  603 B     build\static\js\main.0377f5ae.chunk.js
  574 B     build\static\css\main.9d5b29c0.chunk.css

The project was built assuming it is hosted at /.
You can control this with the homepage field in your package.json.

The build folder is ready to be deployed.
You may serve it with a static server:

  npm install -g serve
  serve -s build

Find out more about deployment here:

  https://cra.link/deployment

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn>
```

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> firebase serve

=== Serving from 'D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn'...

i  hosting: Serving hosting files from: public
+  hosting: Local server: http://localhost:5000
```

Instalasi Redux

Install Redux dan react redux, redux thunk

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> npm install redux
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed. You must install peer dependencies yours
elf.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3
.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ redux@4.0.5
added 2 packages from 1 contributor and audited 1954 packages in 17.252s

135 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn>
```

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> npm install react-redux
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed. You must install peer dependencies yours
elf.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3
.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ react-redux@7.2.3
added 8 packages from 52 contributors and audited 1962 packages in 18.026s

135 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn>
```

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> npm install redux-thunk
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed. You must install peer dependencies yours
elf.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3
.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ redux-thunk@2.3.0
added 1 package from 1 contributor and audited 1964 packages in 16.785s

135 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> █
```

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> npm install react-router-dom
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed. You must install peer dependencies yours
elf.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3
.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ react-router-dom@5.2.0
added 10 packages from 5 contributors and audited 1974 packages in 17.771s

135 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> █
```

Install firebase

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> npm install firebase

> core-js@3.6.5 postinstall D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn\node_modules\@firebase\polyfill\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

Thank you for using core-js ( https://github.com/zloirock/core-js ) for polyfilling JavaScript standard library!

The project needs your help! Please consider supporting of core-js on Open Collective or Patreon:
> https://opencollective.com/core-js
> https://www.patreon.com/zloirock

Also, the author of core-js ( https://github.com/zloirock ) is looking for a good job -)


> protobufjs@6.10.2 postinstall D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn\node_modules\protobufjs
> node scripts/postinstall

npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed. You must install peer dependencies yours
elf.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3
.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ firebase@8.4.2
added 83 packages from 69 contributors and audited 2057 packages in 156.09s

136 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> █
```

Pilih UI library

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> npm install @material-ui/core
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed. You
must install peer dependencies yourself.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >
= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32
","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32
","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32
","arch":"x64"})

+ @material-ui/core@4.11.3
added 25 packages from 18 contributors and audited 2082 packages in 27.574s

140 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> █
```

Paste kan file public/index.html

```
5        <link
6          rel="stylesheet"
7          href="https://fonts.googleapis.com/css?family=Roboto:300,400,500,700&display=swap"
8        />
```

Install material icon

```
PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn> npm install @material-ui/icons
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed. You
 must install peer dependencies yourself.
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev ||
>= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win3
2","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32
","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win3
2","arch":"x64"})

+ @material-ui/icons@4.11.2
added 1 package from 1 contributor and audited 2083 packages in 33.428s

140 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

PS D:\data\Users\User\Documents\College\Framework Prog\framework_prog\11thWeek\react-fir-login-hunayn>
```
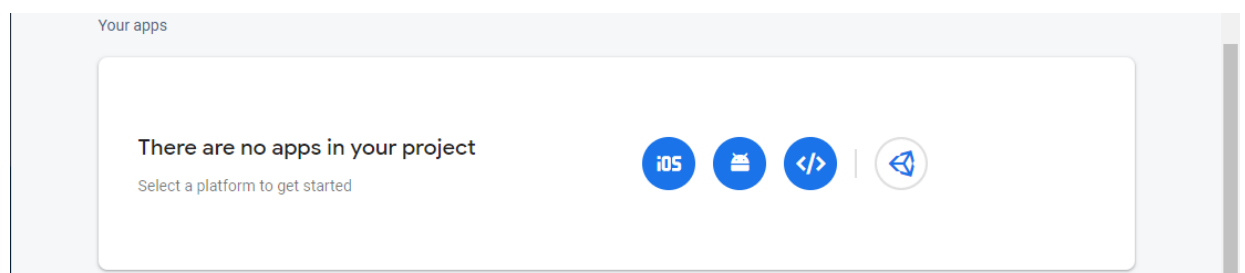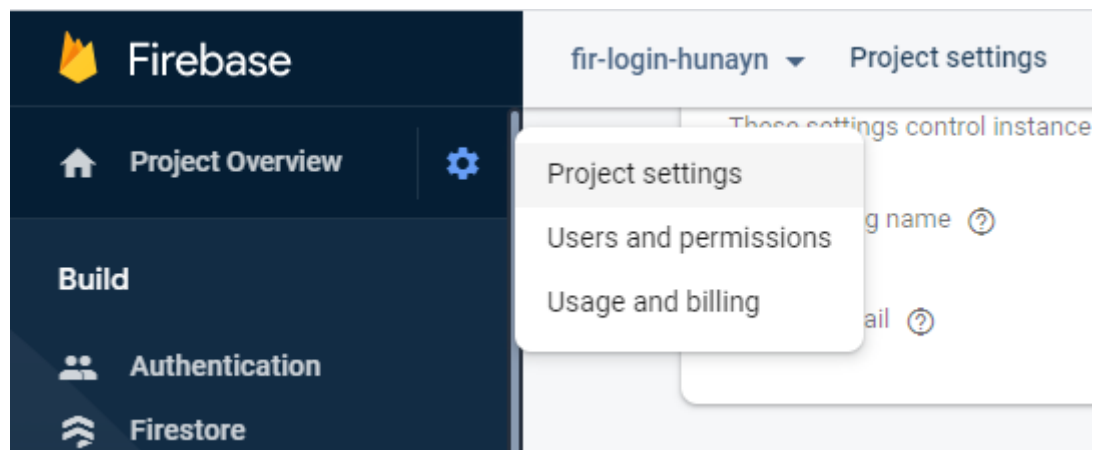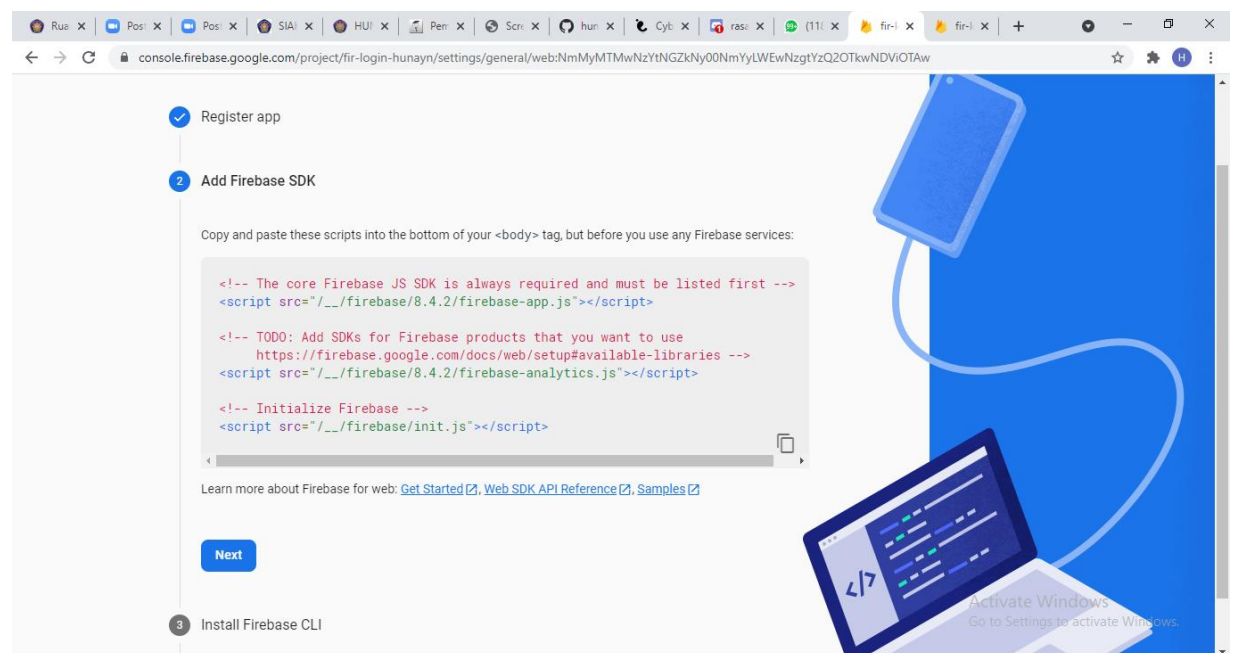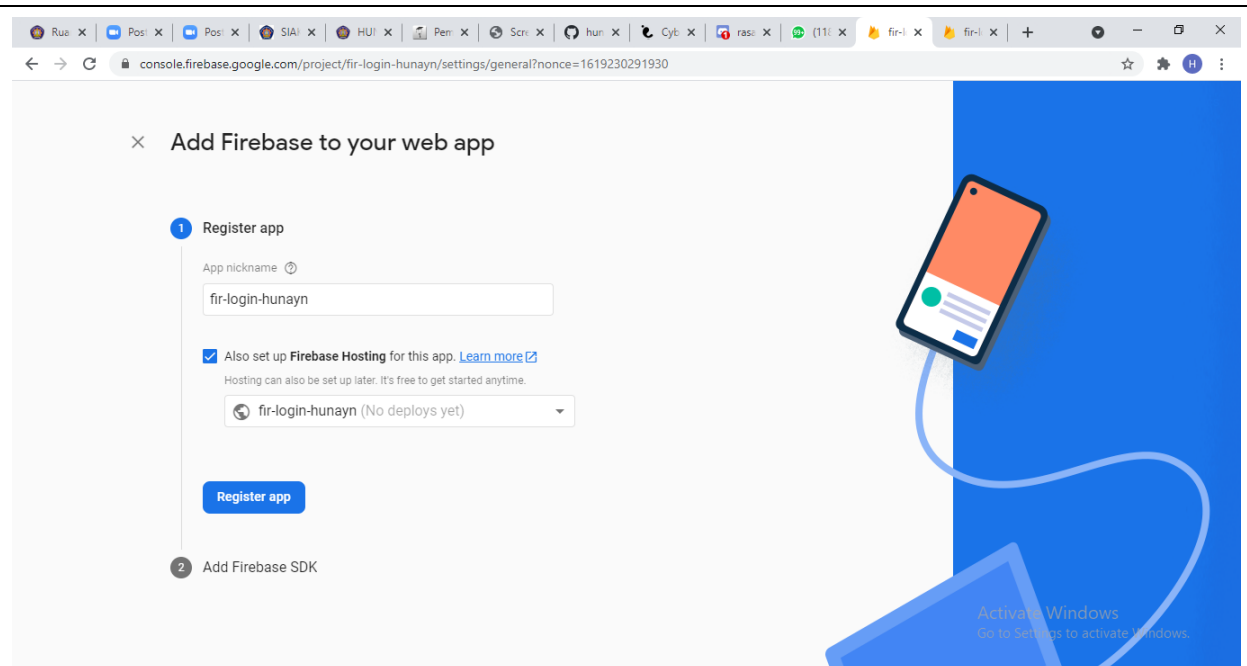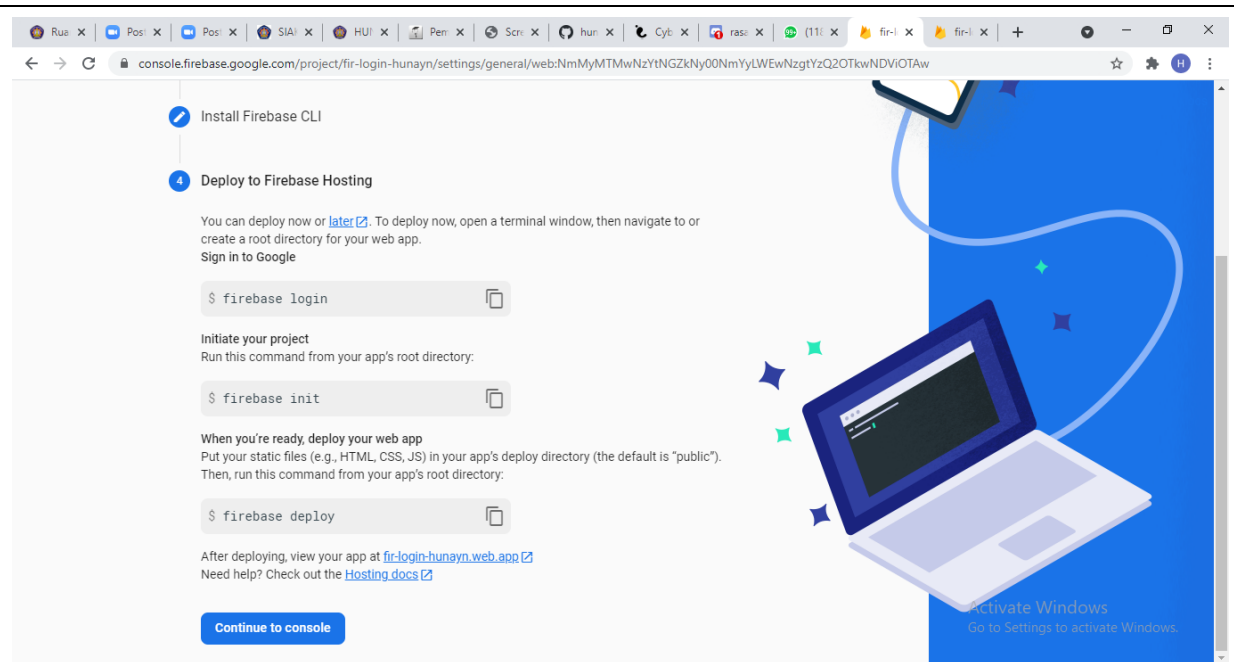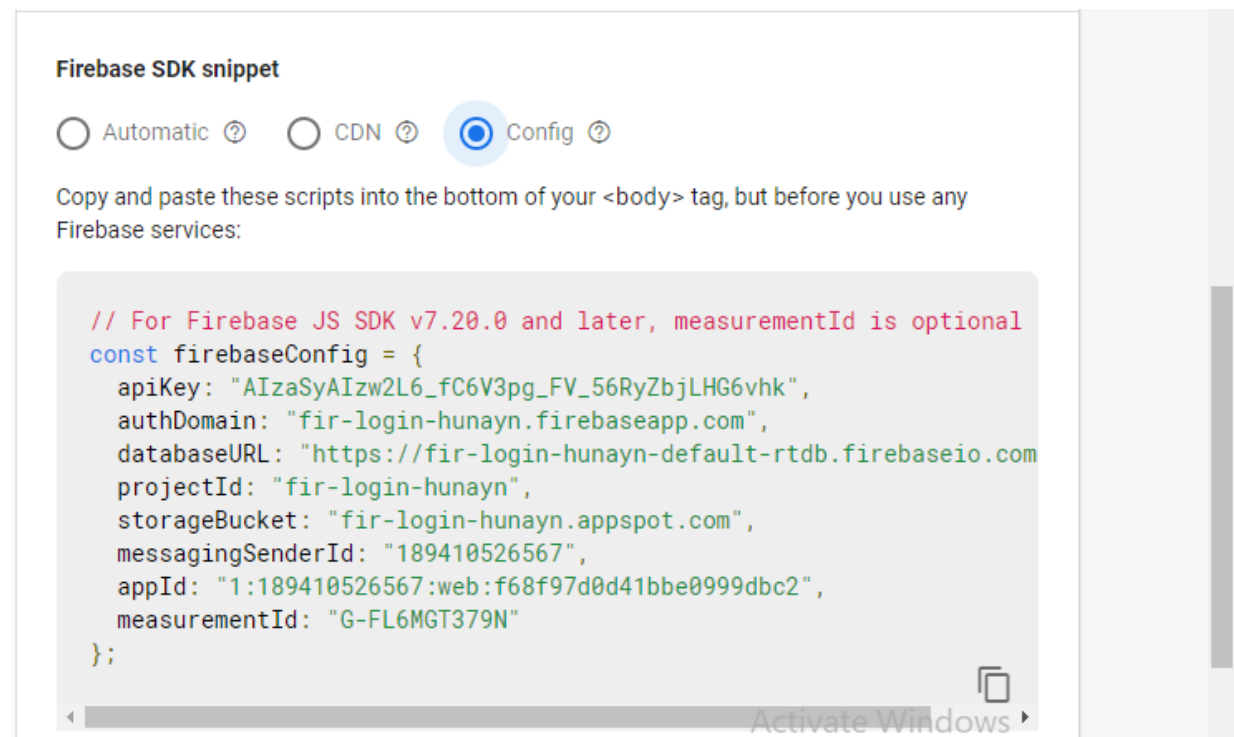
Setting firebase config

Pilih project setting

8

Pilih config

Edit pada src/firebase/firebase.js

```javascript
import firebase from "firebase/app";
import "firebase/auth";
import "firebase/firestore";

// For Firebase JS SDK v7.20.0 and later, measurementId is optional
const firebaseConfig = {
  apiKey: "AIzaSyAIzw2L6_fC6V3pg_FV_56RyZbjLHG6vhk",
  authDomain: "fir-login-hunayn.firebaseapp.com",
  databaseURL: "https://fir-login-hunayn-default-rtdb.firebaseio.com",
  projectId: "fir-login-hunayn",
  storageBucket: "fir-login-hunayn.appspot.com",
```

```
    messagingSenderId: "189410526567",
    appId: "1:189410526567:web:f68f97d0d41bbe0999dbc2",
    measurementId: "G-FL6MGT379N",
};

export const myFirebase = firebase.initializeApp(firebaseConfig);
const baseDb = myFirebase.firestore();
export const db = baseDb;
```

 Edit pada src/actions/auth.js sebagaimana berikut
```
import { myFirebase } from "../firebase/firebase";

export const LOGIN_REQUEST = "LOGIN_REQUEST";
export const LOGIN_SUCCESS = "LOGIN_SUCCESS";
export const LOGIN_FAILURE = "LOGIN_FAILURE";

export const LOGOUT_REQUEST = "LOGOUT_REQUEST";
export const LOGOUT_SUCCESS = "LOGOUT_SUCCESS";
export const LOGOUT_FAILURE = "LOGOUT_FAILURE";
export const VERIFY_REQUEST = "VERIFY_REQUEST";
export const VERIFY_SUCCESS = "VERIFY_SUCCESS";

const requestLogin = () => {
  return {
    type: LOGIN_REQUEST,
  };
};

const receiveLogin = (user) => {
  return {
    type: LOGIN_SUCCESS,
    user,
  };
};

const loginError = () => {
  return {
    type: LOGIN_FAILURE,
  };
};

const requestLogout = () => {
  return {
    type: LOGOUT_REQUEST,
  };
};

const receiveLogout = () => {
  return {
    type: LOGOUT_SUCCESS,
  };
};
```

```javascript
const logoutError = () => {
  return {
    type: LOGOUT_FAILURE,
  };
};

const verifyRequest = () => {
  return {
    type: VERIFY_REQUEST,
  };
};

const verifySuccess = () => {
  return {
    type: VERIFY_SUCCESS,
  };
};

export const loginUser = (email, password) => (dispatch) => {
  dispatch(requestLogin());
  myFirebase
    .auth()
    .signInWithEmailAndPassword(email, password)
    .then((user) => {
      dispatch(receiveLogin(user));
    })
    .catch((error) => {
      //Do something with the error if you want!
      dispatch(loginError());
    });
};

export const logoutUser = () => (dispatch) => {
  dispatch(requestLogout());
  myFirebase
    .auth()
    .signOut()
    .then(() => {
      dispatch(receiveLogout());
    })
    .catch((error) => {
      //Do something with the error if you want!
      dispatch(logoutError());
    });
};

export const verifyAuth = () => (dispatch) => {
  dispatch(verifyRequest());
  myFirebase.auth().onAuthStateChanged((user) => {
    if (user !== null) {
      dispatch(receiveLogin(user));
    }
    dispatch(verifySuccess());
```

```
  });
};
```

Setting Reducer

Buka src/reducers/auth.js kemudian tambahkan file berikut

```javascript
import {
  LOGIN_REQUEST,
  LOGIN_SUCCESS,
  LOGIN_FAILURE,
  LOGOUT_REQUEST,
  LOGOUT_SUCCESS,
  LOGOUT_FAILURE,
  VERIFY_REQUEST,
  VERIFY_SUCCESS,
} from "../actions/auth";

export default (
  state = {
    isLoggingIn: false,
    isLoggingOut: false,
    isVerifying: false,
    loginError: false,
    logoutError: false,
    isAuthenticated: false,
    user: {},
  },
  action
) => {
  switch (action.type) {
    case LOGIN_REQUEST:
      return {
        ...state,
        isLoggingIn: true,
        loginError: false,
      };
    case LOGIN_SUCCESS:
      return {
        ...state,
        isLoggingIn: false,
        isAuthenticated: true,
        user: action.user,
      };
    case LOGIN_FAILURE:
      return {
        ...state,
        isLoggingIn: false,
        isAuthenticated: false,
        loginError: true,
      };
    case LOGOUT_REQUEST:
      return {
        ...state,
        isLoggingOut: true,
```

```
        logoutError: false,
      };
    case LOGOUT_SUCCESS:
      return {
        ...state,
        isLoggingOut: false,
        isAuthenticated: false,
        user: {},
      };
    case LOGOUT_FAILURE:
      return {
        ...state,
        isLoggingOut: false,
        logoutError: true,
      };
    case VERIFY_REQUEST:
      return {
        ...state,
        isVerifying: true,
        verifyingError: false,
      };
    case VERIFY_SUCCESS:
      return {
        ...state,
        isVerifying: false,
      };
    default:
      return state;
  }
};
```

Tambahkan source code pada src/reducers/index.js seperti berikut
```
import { combineReducers } from "redux";
import auth from "./auth";
export default combineReducers({ auth });
```

Buatlah file baru bernama configureStore.js pada folder src
```
import { applyMiddleware, createStore } from "redux";
import thunkMiddleware from "redux-thunk";
import { verifyAuth } from "./actions/auth";
import rootReducer from "./reducers";

export default function configureStore(persistedState) {
  const store = createStore(
    rootReducer,
    persistedState,
    applyMiddleware(thunkMiddleware)
  );
  store.dispatch(verifyAuth());
  return store;
}
```

Buatlah file baru bernama Root.js pada folder src kemudian tambahkan source code seperti berikut

```javascript
import React from "react";
import { Provider } from "react-redux";
import { BrowserRouter as Router } from "react-router-dom";
import App from "./App";
import configureStore from "./configureStore";

const store = configureStore();

function Root() {
  return (
    <Provider store={store}>
      <Router>
        <App />
      </Router>
    </Provider>
  );
}

export default Root;
```

Edit source code pada src/index.js seperti berikut

```javascript
import React from "react";
import ReactDOM from "react-dom";
import Root from "./Root";
import * as serviceWorker from "./serviceWorker";

ReactDOM.render(<Root />, document.getElementById("root"));

// If you want your app to work offline and load faster, you can change
// unregister() to register() below. Note this comes with some pitfalls.
// Learn more about service workers: https://bit.ly/CRA-PWA
serviceWorker.unregister();
```

Edit source code pada src/App.js seperti berikut

```javascript
import React from "react";
import { Route, Switch } from "react-router-dom";
import { connect } from "react-redux";
import ProtectedRoute from "./components/protectedRoute";
import Home from "./components/home";
import Login from "./components/login";

function App(props) {
  const { isAuthenticated, isVerifying } = props;
  return (
    <Switch>
      <ProtectedRoute
        exact
        path="/"
        component={Home}
        isAuthenticated={isAuthenticated}
        isVerifying={isVerifying}
```

```
      />
      <Route path="/login" component={Login} />
    </Switch>
  );
}

function mapStateToProps(state) {
  return {
    isAuthenticated: state.auth.isAuthenticated,
    isVerifying: state.auth.isVerifying,
  };
}

export default connect(mapStateToProps)(App);
```

 Buatlah file baru pada src/components/login.js kemudian tambahkan source code berikut

```
import React, { Component } from "react";
import { connect } from "react-redux";
import { Redirect } from "react-router-dom";
import { loginUser } from "../actions/auth";
import { withStyles } from "@material-ui/styles";
import Avatar from "@material-ui/core/Avatar";
import Button from "@material-ui/core/Button";
import TextField from "@material-ui/core/TextField";
import LockOutlinedIcon from "@material-ui/icons/LockOutlined";
import Typography from "@material-ui/core/Typography";
import Paper from "@material-ui/core/Paper";
import Container from "@material-ui/core/Container";

const styles = () => ({
  "@global": {
    body: {
      backgroundColor: "#fff",
    },
  },
  paper: {
    marginTop: 100,
    display: "flex",
    padding: 20,
    flexDirection: "column",
    alignItems: "center",
  },
  avatar: {
    marginLeft: "auto",
    marginRight: "auto",
    backgroundColor: "#f50057",
  },
  form: {
    marginTop: 1,
  },
  errorText: {
    color: "#f50057",
    marginBottom: 5,
```

```
          textAlign: "center",
      },
  });

  class Login extends Component {
    state = { email: "", password: "" };
    handleEmailChange = ({ target }) => {
      this.setState({ email: target.value });
    };
    handlePasswordChange = ({ target }) => {
      this.setState({ password: target.value });
    };
    handleSubmit = () => {
      const { dispatch } = this.props;
      const { email, password } = this.state;
      dispatch(loginUser(email, password));
    };
    render() {
      const { classes, loginError, isAuthenticated } = this.props;
      if (isAuthenticated) {
        return <Redirect to="/" />;
      } else {
        return (
          <Container component="main" maxWidth="xs">
            <Paper className={classes.paper}>
              <Avatar className={classes.avatar}>
                <LockOutlinedIcon />
              </Avatar>
              <Typography component="h1" variant="h5">
                Sign in
              </Typography>
              <TextField
                variant="outlined"
                margin="normal"
                fullWidth
                id="email"
                label="Email Address"
                name="email"
                onChange={this.handleEmailChange}
              />
              <TextField
                variant="outlined"
                margin="normal"
                fullWidth
                name="password"
                label="Password"
                type="password"
                id="password"
                onChange={this.handlePasswordChange}
              />
              {loginError && (
                <Typography component="p" className={classes.errorText}>
                  Incorrect email or password.
```

```jsx
                </Typography>
              )}
              <Button
                type="button"
                fullWidth
                variant="contained"
                color="primary"
                className={classes.submit}
                onClick={this.handleSubmit}
              >
                Sign In
              </Button>
            </Paper>
          </Container>
        );
      }
    }
}

function mapStateToProps(state) {
  return {
    isLoggingIn: state.auth.isLoggingIn,
    loginError: state.auth.loginError,
    isAuthenticated: state.auth.isAuthenticated,
  };
}

export default withStyles(styles)(connect(mapStateToProps)(Login));
```

Buatlah file baru pada src/components/home.js kemudian tambahkan source code seperti berikut

```jsx
import React, { Component } from "react";
import { connect } from "react-redux";
import { logoutUser } from "../actions/auth";

class Home extends Component {
  handleLogout = () => {
    const { dispatch } = this.props;
    dispatch(logoutUser());
  };
  render() {
    const { isLoggingOut, logoutError } = this.props;
    return (
      <div>
        <h1>This is your app's protected area.</h1>
        <p>Any routes here will also be protected</p>
        <button onClick={this.handleLogout}>Logout</button>
        {isLoggingOut && <p>Logging Out....</p>}
        {logoutError && <p>Error logging out</p>}
      </div>
    );
  }
}
```

```javascript
function mapStateToProps(state) {
  return {
    isLoggingOut: state.auth.isLoggingOut,
    logoutError: state.auth.logoutError,
  };
}

export default connect(mapStateToProps)(Home);
```

 Buatlah file baru pada src/components/protectedRoute.js kemudian tambahkan source code berikut

```javascript
import React from "react";
import { Route, Redirect } from "react-router-dom";

const ProtectedRoute = ({
  component: Component,
  isAuthenticated,
  isVerifying,
  ...rest
}) => (
  <Route
    {...rest}
    render={(props) =>
      isVerifying ? (
        <div />
      ) : isAuthenticated ? (
        <Component {...props} />
      ) : (
        <Redirect
          to={{
            pathname: "/login",
            state: { from: props.location },
          }}
        />
      )
    }
  />
);

export default ProtectedRoute;
```
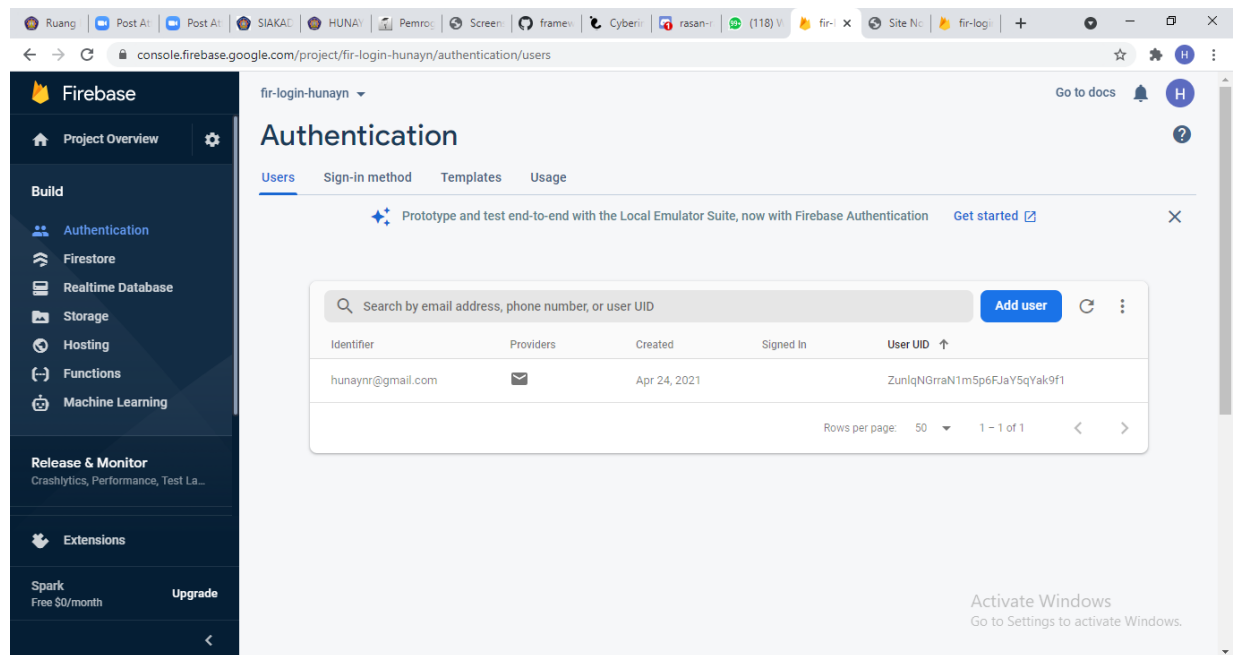
 Running projet dengan syntax "npm start" pada terminal
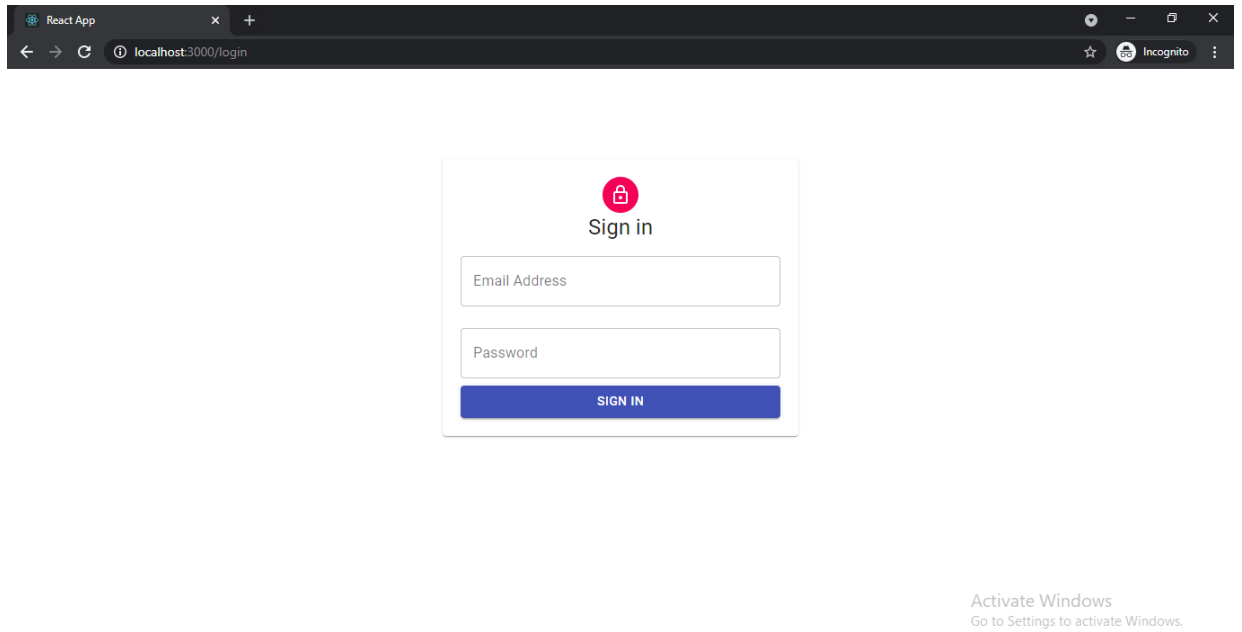
Masuk ke firebase console kemudian add user

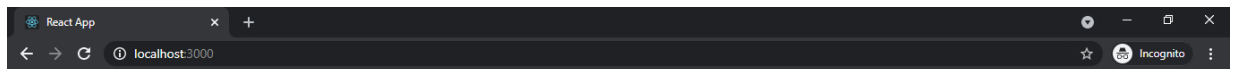Execute "npm start" pada terminal kemudian masukkan username dan password

Kemudian masuk ke dalam halaman beranda

Link GitHub : https://github.com/hunaynr/framework_prog/tree/main/11thWeek

Link Youtube : https://www.youtube.com/channel/UCP53BJw16j_nt4Y0sETg1rA